

| L<br>Number | Hits | Search Text   | DB                               | Time stamp          |
|-------------|------|---|----------------------------------|---------------------|
| 1           | 47   | (adding with (rare adj gas)) and semiconductor                    | USPAT;<br>US-PGPUB               | 2004/06/07<br>11:23 |
| 2           | 12   | ((adding with (rare adj gas)) and semiconductor) and @ad<20010118 | USPAT;<br>US-PGPUB               | 2004/06/07<br>11:20 |
| 3           | 14   | (adding with (rare adj gas)) and semiconductor                    | EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/06/07<br>11:23 |

US-PAT-NO: 6587420

DOCUMENT-IDENTIFIER: US 6587420 B1

TITLE: Recording and reproducing method for  
optical information recording medium and optical  
information recording medium

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Detailed Description Text - DETX (57) :

Furthermore, other elements were added to a Ge--Te binary alloy in order to improve the reproduction optical degradation characteristics by raising the temperature for crystallization of the recording thin film.

As a result, the characteristics were improved by adding at least one selected from the group consisting of rare gas elements, B, C, Al, Si, Ti, V, Cr, Mn, Fe, Co, Ni, Zr, Ni, Se, Nb, Sb, Ta, W, Au, Pb and Bi in an appropriate amount.